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1 Building a distributed full-text index for the web
Sergey Melink, Sriram Raghavan, Beverly Yang, Hector Garcia-Molina
July 2001 ACM Transactions on Information Systems (TOIS), Volume 19 Issue 3
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Full text available: pdf(651.72 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

We identify crucial design issues in building a distributed inverted index for a large collection of Web pages. We introduce a novel pipelining technique for structuring the core index-building system that substantially reduces the index construction ...

Keywords: Distributed indexing, Embedded databases, Inverted files, Pipelining, Text retrieval

2 Index compression vs. retrieval time of inverted files for XML documents
Norbert Fuhr, Norbert Gövert
November 2002 CIKM '02: Proceedings of the eleventh international conference on Information and knowledge management
Publisher: ACM
Full text available: pdf(55.80 KB) Additional Information: full citation, abstract, references, cited by, index terms

Query languages for retrieval of XML documents allow for conditions referring both to the content and the structure of documents. In this paper, we investigate two different approaches for reducing index space of inverted files for XML documents. First, ...

3 Self-indexing inverted files for fast text retrieval

Alistair Moffat, Justin Zobel
October 1996 ACM Transactions on Information Systems (TOIS), Volume 14 Issue 4
Publisher: ACM
Full text available: pdf(484.52 KB) Additional Information: full citation, abstract, references, cited by, index terms

Query-processing costs on large text databases are dominated by the need to retrieve and scan the inverted list of each query term. Retrieval time for inverted lists can be greatly reduced by the use of compression, but this adds to the CPU time required. ...

4 Compression of inverted indexes For fast query evaluation
Falk Scholer, Hugh E. Williams, John Yiannis, Justin Zobel
August 2002 SIGIR '02: Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval
Publisher: ACM
Full text available: pdf(174.13 KB) Additional Information: full citation, abstract, references, cited by, index terms

Compression reduces both the size of indexes and the time needed to evaluate queries. In this paper, we revisit the compression of inverted lists of document postings that store the position and frequency of indexed terms, considering two approaches ...

Keywords: index compression, integer coding, inverted indexes, retrieval efficiency

5 Inverted files versus signature files for text indexing
Justin Zobel, Alistair Moffat, Kotagiri Ramamohanarao
December 1998 ACM Transactions on Database Systems (TODS), Volume 23 Issue 4
Publisher: ACM
Full text available: pdf(243.62 KB) Additional Information: full citation, abstract, references, cited by, index terms

Two well-known indexing methods are inverted files and signature files. We have undertaken a detailed comparison of these two approaches in the context of text indexing, paying particular attention to query evaluation speed and space requirements. We ...

Keywords: indexing, inverted files, performance, signature files, text databases, text indexing

6 Efficient phrase querying with an auxiliary index
Dirk Bahle, Hugh E. Williams, Justin Zobel
August 2002 SIGIR '02: Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval
Publisher: ACM

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